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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/919,085	07/31/2001	Robert R. Buckley	D/A0828	2472

7590 06/07/2005

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EXAMINER

DANG, DUY M

ART UNIT PAPER NUMBER

2621

DATE MAILED: 06/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/919,085

Applicant(s)

BUCKLEY, ROBERT R.

Examiner

Duy M. Dang

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 December 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 9-13 is/are allowed.
- 6) ☒ Claim(s) 1-8 and 14-16 is/are rejected.
- 7) ☒ Claim(s) 17 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 7/31/01 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. Applicant's arguments with regard to election/restriction requirement filed 12/20/04 have been fully considered and are persuasive. The requirement for election/restriction mailed 9/14/04 has been withdrawn.

2. Pending claims are 1-17.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-8, and 14-16 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 5,884,014 to Huttenlocher et al.

Regarding claim 1, Huttenlocher teaches: a method of processing compressed digital image data [see figure 6 for example] comprising:

receiving the digital image data compressed according to a defined pattern matching technique, where the digital image data includes coded image content data and a decoding pattern dictionary containing image patterns substitutable for the coded image content data [see figure 6b. Note that figure 6b represents a decompressor for decompressing the received tokenized representation 64 which corresponds to the claimed features. Furthermore, the token dictionary mentioned in col. 14 line 32 refers to the so called pattern dictionary; and revising an image pattern in the decoding pattern dictionary [see col. 14 lines 30-34. Note that adding shape to dictionary].

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Regarding claims 2-5, these claims are also rejected for the same reasons as set forth in claim 1 above.

Regarding claims 7-8 Hutterlocher further teaches converting binary image patterns to grayscale [see col. 9 lines 54-57] and applying morphological operations [i.e., determining the shape of tokens mentioned in col. 14 lines 35-55]

Regarding claim 14, Huttenlocher teaches:

receiving the data stream including an output pattern dictionary and a coded portion referencing identifiable patterns in the output pattern dictionary [see figure 6b. Note that figure 6b represents a decompressor for decompressing the received tokenized representation 64 which corresponds to the claimed features. Furthermore, the token dictionary mentioned in col. 14 line 32 refers to the so called pattern dictionary; image processing a pattern in the output pattern dictionary [see col. 14 lines 30-34]; and replacing the pattern in the output pattern dictionary with the image processed pattern [see col. 14 lines 30-34. Note that updated dictionary by adding shape].

Regarding claim 15, this claimed is also rejected for the same reasons as set forth in claim 14.

Regarding claim 16, Huttenlocher further teaches adjusting the output pattern for a specific image output device [see figures 7-8 wherein the output is adjusted for printer and display].

5. Claims 9-13 are allowed.

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6. Claim 17 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy M. Dang whose telephone number is 571-272-7389. The examiner can normally be reached on Monday to Friday from 5:30AM to 2:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 571-272-7453. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dmd  
5/05



Duy M. Dang  
Patent Examiner